

**EAST Search History****EAST Search History (Prior Art)**

| Ref # | Hits   | Search Query  | DBs             | Default Operator | Plurals | Time Stamp       |
|-------|--------|---|-----------------|------------------|---------|------------------|
| L47   | 2      | 46 and 24   | US-PGPUB; USPAT | OR               | OFF     | 2010/04/09 15:49 |
| L46   | 101    | 39 40 41 42   | US-PGPUB; USPAT | OR               | OFF     | 2010/04/09 15:49 |
| L45   | 24     | 43 and 41   | US-PGPUB; USPAT | OR               | OFF     | 2010/04/09 15:49 |
| L44   | 38     | 43 and 39   | US-PGPUB; USPAT | OR               | OFF     | 2010/04/09 15:49 |
| L43   | 172640 | microwave   | US-PGPUB; USPAT | OR               | OFF     | 2010/04/09 15:48 |
| L42   | 0      | 38 and 29   | US-PGPUB; USPAT | OR               | OFF     | 2010/04/09 15:48 |
| L41   | 42     | 38 and 28   | US-PGPUB; USPAT | OR               | OFF     | 2010/04/09 15:48 |
| L40   | 8      | 38 and 27   | US-PGPUB; USPAT | OR               | OFF     | 2010/04/09 15:48 |
| L39   | 79     | 38 and 26   | US-PGPUB; USPAT | OR               | OFF     | 2010/04/09 15:48 |
| L38   | 15817  | (phase and (magnitude amplitude)) and (impedance with (match matching)) | US-PGPUB; USPAT | OR               | OFF     | 2010/04/09 15:48 |
| L37   | 0      | 20 and 29   | US-PGPUB; USPAT | OR               | OFF     | 2010/04/09 15:47 |
| L36   | 0      | 20 and 28   | US-PGPUB; USPAT | OR               | OFF     | 2010/04/09 15:47 |
| L35   | 0      | 20 and 27   | US-PGPUB; USPAT | OR               | OFF     | 2010/04/09 15:47 |
| L34   | 3      | 20 and 26   | US-PGPUB; USPAT | OR               | OFF     | 2010/04/09 15:47 |
| L33   | 0      | 11 and 29   | US-PGPUB; USPAT | OR               | OFF     | 2010/04/09 15:47 |
| L32   | 0      | 11 and 28   | US-PGPUB; USPAT | OR               | OFF     | 2010/04/09 15:47 |
| L31   | 0      | 11 and 27   | US-PGPUB; USPAT | OR               | OFF     | 2010/04/09 15:47 |
| L30   | 1      | 11 and 26   | US-PGPUB; USPAT | OR               | OFF     | 2010/04/09 15:47 |
| L29   | 419    | 607/106,107.ccls.   | US-PGPUB; USPAT | OR               | OFF     | 2010/04/09 15:44 |

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|-----|------|--|------------------------------|----|-----|---------------------|
| L28 | 4306 | 606/41,42 ccls   | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>15:44 |
| L27 | 179  | 606/38.ccls.   | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>15:44 |
| L26 | 1392 | 606/33,34 ccls   | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>15:44 |
| L25 | 1    | ("20020145483") PN   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2010/04/09<br>15:14 |
| L24 | 19   | 23 and ghz   | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>14:44 |
| L23 | 28   | (US-20020112819-\$ or US-20020158212-\$ or US-20020105455-\$ or US-20050256519-\$).did, or (US-5113065-\$ or US-3924152-\$ or US-5675259-\$ or US-5621331-\$ or US-5519359-\$ or US-6020795-\$ or US-6236366-\$ or US-6256130-\$ or US-4059803-\$ or US-5991605-\$ or US-5704355-\$ or US-4627442-\$ or US-6890331-\$ or US-5788692-\$ or US-7226446-\$ or US-6673068-\$ or US-6471696-\$ or US-4315510-\$ or US-5364392-\$ or US-6802840-\$ or US-5405346-\$ or US-6233490-\$ or US-6104959-\$ or US-5957969-\$).did, | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>14:44 |
| L22 | 23   | 21 and 8   | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>14:31 |
| L21 | 42   | 20 and (local near oscillator)   | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>14:31 |
| L20 | 305  | (phase and (magnitude amplitude)) same (reflect \$3 reflectance) same (impedance with (match matching))  | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>14:30 |
| L19 | 10   | 18 and 8   | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>14:11 |
| L18 | 20   | 17 same (local near oscillator)  | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>14:11 |
| L17 | 1824 | phase with (impedance near (match matching))   | US-PGPUB,<br>USPAT           | OR | OFF | 2010/04/09<br>14:11 |
| L16 | 11   | 15 and 8   | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>14:06 |
| L15 | 23   | 14 and tuning  | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>14:06 |

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|-----|---------|---|------------------------------|----|-----|---------------------|
| L14 | 67      | (heterodyne heterodyning)<br>same (phase) same<br>(impedance)   | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>14:06 |
| L13 | 34      | 12 and 8  | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>13:19 |
| L12 | 81      | 11 and (local near<br>oscillator)   | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>13:19 |
| L11 | 528     | (phase and (magnitude<br>amplitude)) same (reflect<br>\$3 reflectance) same<br>(reduce minimize prevent<br>improve) with (signal noise<br>interference)   | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>13:19 |
| L10 | 27      | 9 and (impedance)   | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>13:10 |
| L9  | 67      | 7 and L8  | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>13:10 |
| L8  | 4082506 | @ad<"20021127"  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2010/04/09<br>13:10 |
| L7  | 125     | 6 and microwave   | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>13:10 |
| L6  | 296     | (local with oscillator) same<br>(phase and (magnitude<br>amplitude)) same reflect\$3  | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>13:10 |
| L5  | 10      | 4 and microwave and<br>(phase same (amplitude<br>magnitude))  | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>12:49 |
| L4  | 28      | (US-20020112819-\$ or US-<br>20020105455-\$ or US-<br>20020158212-\$ or US-<br>20050256519-\$).did. or<br>(US-5788692-\$ or US-<br>7226446-\$ or US-6802840-<br>\$ or US-6673068-\$ or US-<br>6471696-\$ or US-6233490-<br>\$ or US-5405346-\$ or US-<br>5364392-\$ or US-4315510-<br>\$ or US-4627442-\$ or US-<br>6020795-\$ or US-5957969-<br>\$ or US-6890331-\$ or US-<br>5519359-\$ or US-4059803-<br>\$ or US-5675259-\$ or US-<br>5704355-\$ or US-6236366-<br>\$ or US-6256130-\$ or US-<br>5113065-\$ or US-6104959-<br>\$ or US-5991605-\$ or US-<br>3924152-\$ or US-5621331-<br>\$).did. | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>12:49 |
| L3  | 14      | L2 and (local)  | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>12:41 |

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|------|----|--|-----------------|----|-----|------------------|
| L2   | 30 | (US-20020112819-\$ or US-20020105455-\$ or US-20060273255-\$ or US-20020158212-\$ or US-20050256519-\$ or US-20020077627-\$).did. or (US-5788692-\$ or US-7226446-\$ or US-6802840-\$ or US-6673068-\$ or US-6471696-\$ or US-6233490-\$ or US-5405346-\$ or US-5364392-\$ or US-4315510-\$ or US-4627442-\$ or US-6020795-\$ or US-5957969-\$ or US-6890331-\$ or US-5519359-\$ or US-4059803-\$ or US-5675259-\$ or US-5704355-\$ or US-6236366-\$ or US-6256130-\$ or US-5113065-\$ or US-6104959-\$ or US-5991605-\$ or US-3924152-\$ or US-5621331-\$).did. | US-PGPUB; USPAT | OR | OFF | 2010/04/09 12:41 |
| S290 | 6  | S289 and (reflect\$3)  | US-PGPUB; USPAT | OR | OFF | 2010/04/09 11:01 |
| S289 | 8  | S288 and (local)   | US-PGPUB; USPAT | OR | OFF | 2010/04/09 11:01 |
| S288 | 12 | S287 and microwave   | US-PGPUB; USPAT | OR | OFF | 2010/04/09 11:00 |
| S287 | 13 | S286 and (phase same (amplitude magnitude))  | US-PGPUB; USPAT | OR | OFF | 2010/04/09 11:00 |
| S286 | 30 | (US-20020112819-\$ or US-20020105455-\$ or US-20060273255-\$ or US-20020158212-\$ or US-20050256519-\$ or US-20020077627-\$).did. or (US-5788692-\$ or US-7226446-\$ or US-6802840-\$ or US-6673068-\$ or US-6471696-\$ or US-6233490-\$ or US-5405346-\$ or US-5364392-\$ or US-4315510-\$ or US-4627442-\$ or US-6020795-\$ or US-5957969-\$ or US-6890331-\$ or US-5519359-\$ or US-4059803-\$ or US-5675259-\$ or US-5704355-\$ or US-6236366-\$ or US-6256130-\$ or US-5113065-\$ or US-6104959-\$ or US-5991605-\$ or US-3924152-\$ or US-5621331-\$).did. | US-PGPUB; USPAT | OR | OFF | 2010/04/09 11:00 |

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|------|---------|--|------------------------------|----|-----|---------------------|
| S285 | 6       | S284 and local   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2010/04/09<br>10:55 |
| S284 | 20      | ("4427936"   "4507602"   "4521728"   "5274333").PN. OR ("5621331").URPN.         | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2010/04/09<br>10:55 |
| S283 | 10      | S282 and (reflect\$3)  | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>10:49 |
| S282 | 10      | S281 and S275  | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>10:48 |
| S281 | 25      | S280 and microwave   | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>10:48 |
| S280 | 44      | (tuner adjuster) with (impedance) same (phase and (magnitude amplitude))         | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>10:48 |
| S279 | 37      | (tuner) with (impedance) same (phase and (magnitude amplitude))                  | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>10:48 |
| S278 | 6       | S277 and local   | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>10:34 |
| S277 | 23      | S276 and microwave   | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>10:11 |
| S276 | 33      | S274 and S275  | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>10:09 |
| S275 | 4082506 | @ad< "20021127"  | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>10:09 |
| S274 | 57      | (impedance with matching) same (complex) same (phase same (amplitude magnitude)) | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/09<br>10:08 |
| S273 | 20      | S272 and phase   | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/06<br>15:08 |
| S272 | 24      | S271 and S237  | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/06<br>15:07 |
| S271 | 68      | S270 and microwave   | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/06<br>15:07 |
| S270 | 333     | heterodyne with (detection) with noise   | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/06<br>15:07 |
| S269 | 17      | S268 and S261  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2010/04/06<br>14:35 |
| S268 | 30      | S267 and microwave   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2010/04/06<br>14:35 |
| S267 | 83      | S266 and (ablation ablating ablate)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2010/04/06<br>14:35 |
| S266 | 6160    | S263 and S264  | US-PGPUB;<br>USPAT           | OR | ON  | 2010/04/06<br>14:35 |

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| S265 | 5       | S262 and S263 and S264  | US-PGPUB;<br>USPAT           | OR | ON  | 2010/04/06<br>14:35 |
| S264 | 211543  | (tune tuner change adjust<br>adjuster) same (impedance<br>reflected reflection) | US-PGPUB;<br>USPAT           | OR | ON  | 2010/04/06<br>14:35 |
| S263 | 52170   | (heterodyne (local near<br>oscillator\$1))                                      | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2010/04/06<br>14:34 |
| S262 | 3007    | microwave same (ablation<br>ablating ablate)                                    | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2010/04/06<br>14:34 |
| S261 | 4082504 | @ad<"20021127"  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2010/04/06<br>14:33 |
| S260 | 9       | S259 and phase  | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/06<br>14:22 |
| S259 | 20      | S258 and (heterodyne local<br>oscillator mixer)                                 | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/06<br>14:22 |
| S258 | 57      | S257 and S251   | US-PGPUB;<br>USPAT           | OR | ON  | 2010/04/06<br>14:22 |
| S257 | 41561   | (tune tuner adjust<br>adjuster) same (impedance<br>reflected reflection)        | US-PGPUB;<br>USPAT           | OR | ON  | 2010/04/06<br>14:21 |
| S256 | 17580   | (tune tuner adjust<br>adjuster) same<br>(impedance)                             | US-PGPUB;<br>USPAT           | OR | ON  | 2010/04/06<br>14:21 |
| S255 | 85      | S254 and (detect detector<br>detection sensor sense)                            | US-PGPUB;<br>USPAT           | OR | ON  | 2010/04/06<br>14:20 |
| S254 | 86      | S253 and S237   | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/06<br>14:20 |
| S253 | 132     | S252 and phase  | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/06<br>14:20 |
| S252 | 355     | S251 and (heterodyne local<br>oscillator mixer)                                 | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/06<br>14:19 |
| S251 | 798     | S250 and S232   | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/06<br>14:19 |
| S250 | 3986    | 606/41.cols.  | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/06<br>14:10 |
| S249 | 1       | S248 and phase  | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/06<br>14:09 |
| S248 | 2       | S247 and (heterodyne local<br>oscillator mixer)                                 | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/06<br>14:09 |
| S247 | 4       | S242 and S232   | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/06<br>14:09 |
| S246 | 2       | S245 and S237   | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/06<br>14:08 |
| S245 | 20      | S244 and phase  | US-PGPUB;<br>USPAT           | OR | OFF | 2010/04/06<br>14:08 |

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|------|---------|---|------------------------|----|-----|------------------|
| S244 | 52      | S243 and (heterodyne local oscillator mixer)  | US-PGPUB; USPAT        | OR | OFF | 2010/04/06 14:08 |
| S243 | 221     | S241 and S232   | US-PGPUB; USPAT        | OR | OFF | 2010/04/06 14:08 |
| S242 | 179     | 606/38.ccls.  | US-PGPUB; USPAT        | OR | OFF | 2010/04/06 14:06 |
| S241 | 594     | 606/33.ccls.  | US-PGPUB; USPAT        | OR | OFF | 2010/04/06 14:06 |
| S240 | 0       | S239 and S228   | US-PGPUB; USPAT        | OR | OFF | 2010/04/06 14:03 |
| S239 | 14      | S234 and ((detect detection sensor sense) with (reflected))   | US-PGPUB; USPAT        | OR | OFF | 2010/04/06 13:58 |
| S238 | 10      | S236 and S237   | US-PGPUB; USPAT        | OR | OFF | 2010/04/06 13:53 |
| S237 | 4082504 | @ad<"20021127"  | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/04/06 13:53 |
| S236 | 45      | S235 and (noise)  | US-PGPUB; USPAT        | OR | OFF | 2010/04/06 13:53 |
| S235 | 116     | S234 and (reflected)  | US-PGPUB; USPAT        | OR | OFF | 2010/04/06 13:53 |
| S234 | 429     | S233 and (heterodyne local oscillator mixer)  | US-PGPUB; USPAT        | OR | OFF | 2010/04/06 13:53 |
| S233 | 688     | S232 and phase  | US-PGPUB; USPAT        | OR | OFF | 2010/04/06 13:52 |
| S232 | 2262    | microwave with (ablate ablation)  | US-PGPUB; USPAT        | OR | OFF | 2010/04/06 13:52 |
| S231 | 7       | S230 and (heterodyne local oscillator mixer)  | US-PGPUB; USPAT        | OR | OFF | 2010/04/06 13:00 |
| S230 | 9       | S229 and phase  | US-PGPUB; USPAT        | OR | OFF | 2010/04/06 12:54 |
| S229 | 21      | S228 and ghz  | US-PGPUB; USPAT        | OR | OFF | 2010/04/06 12:50 |
| S228 | 28      | (US-20020112819-\$ or US-20020105455-\$ or US-20060273255-\$ or US-20020158212-\$ or US-20050256519-\$).did. or (US-5788692-\$ or US-7226446-\$ or US-6802840-\$ or US-6673068-\$ or US-6471696-\$ or US-6233490-\$ or US-5405346-\$ or US-5364392-\$ or US-4315510-\$ or US-4627442-\$ or US-6020795-\$ or US-5957969-\$ or US-6890331-\$ or US-5519359-\$ or US-4059803-\$ or US-5675259-\$ or US-4550609-\$ or US-5704355-\$ or US-6236366-\$ or US- | US-PGPUB; USPAT        | OR | OFF | 2010/04/06 12:50 |

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|------|----|---|-----------------|----|-----|---------------------|
|      |    | 6256130-\$ or US-5113065-\$ or US-6104959-\$ or US-5991605-\$).did. |                 |    |     |                     |
| S227 | 11 | tuning same (adjustable with (complex with impedance))              | US-PGPUB; USPAT | OR | OFF | 2010/04/06<br>11:35 |

**EAST Search History (Interference)**

< This search history is empty>

4/ 9/ 2010 3:55:34 PM  
C:\ Documents and Settings\ vchen2\ My Documents\ EAST\ Workspaces\ 10536721 tissue ablation apparatus and method of ablating.wsp